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                                                R(

1 Adding type parameterization to the Java language

◈ Ole Agesen, Stephen N. Freund, John C. Mitchell

October 1997 **ACM SIGPLAN Notices , Proceedings of the 12th ACM ⦃**
conference on Object-oriented programming, systems, la
applications OOPSLA '97, Volume 32 Issue 10

Publisher: ACM Press

Full text available: 📄 pdf(2.16 MB)   Additional Information: full citation, abst
                                                citings, index ten

Although the Java programming language has achieved widespread acce
that seems sorely missed is the ability to use type parameters (as in Ada
templates, and ML polymorphic functions or data types) to allow a gener
instantiated to one or more specific types. In this paper, we propose para
and interfaces in which the type parameter may be constrained to either i
interface or extend a given class. This design allows t ...

2 Parasitic methods: an implementation of multi-methods for Java

◈ John Boyland, Giuseppe Castagna

October 1997 **ACM SIGPLAN Notices , Proceedings of the 12th ACM ⦃**
conference on Object-oriented programming, systems, la
applications OOPSLA '97, Volume 32 Issue 10

Publisher: ACM Press

Full text available: 📄 pdf(1.87   Additional Information: full citation, abst

MB)   citings, index ten

In an object-oriented programming language, method selection is (usuall
using the class of the receiver. Some object-oriented languages (such as '
methods which comprise several methods selected on the basis of the rur
the parameters, not just the receiver. Multi-methods permit intuitive and
of binary methods such as structural equality, set inclusion and matrix m
name a few. Java as currently d ...

3   Compatible genericity with run-time types for the Java programming langu
    Robert Cartwright, Guy L. Steele
    October 1998 **ACM SIGPLAN Notices , Proceedings of the 13th ACM !**
              conference on Object-oriented programming, systems, la
              applications OOPSLA '98, Volume 33 Issue 10
    Publisher: ACM Press
    Full text available: pdf(1.97   Additional Information: full citation, abst
                  MB)   citings, index ten

The most serious impediment to writing substantial programs in the Java
programming language is the lack of a *gentricity* mechanism for abstract
methods with respect to type. During the past two years, several research
developed Java extensions that support various forms of genericity, but r
in accommodating general type parameterization (akin to Java arrays) wl
compatibility with the existing. Java Virtual Machine. In thi ...

4   Converting Java classes to use generics
    Daniel von Dincklage, Amer Diwan
    October 2004 **ACM SIGPLAN Notices , Proceedings of the 19th annual**
              conference on Object-oriented programming, systems, la
              applications OOPSLA '04, Volume 39 Issue 10
    Publisher: ACM Press
    Full text available: pdf(259.67 Additional Information: full citation, abst
                  KB)   index terms

Generics offer significant software engineering benefits since they provi
without compromising type safety. Thus generics will be added to the Ja
next release. While this extension to Java will help programmers when tl
code, it will not help legacy code unless it is rewritten to use generics. In
manually modifying existing programs to use generics is complex and c

and labor intensive.

We describe a system ...

Keywords: generics, parametric polymorphism, type inference

5 Using Java reflection to automate extension language parsing
   Dale Parson
   December 1999 **ACM SIGPLAN Notices , Proceedings of the 2nd confe
             specific languages PLAN '99**, Volume 35 Issue 1
   Publisher: ACM Press
   Full text available: ⏚_pdf(1.03   Additional Information: full citation, abst
                  MB)   index terms

   An extension language is an interpreted programming language designec
   a domain-specific framework. The addition of domain-specific primitive
   embedded extension language transforms that vanilla extension language
   specific language. The LUxWORKS processor simulator and debugger f
   Tcl as its extension language. After an overview of extension language e
   LUxWORKS experience, this paper looks at using Java reflection and ...

6 A comparative study of language support for generic programming
   Ronald Garcia, Jaakko Jarvi, Andrew Lumsdaine, Jeremy G. Siek, Jeremia
   October 2003 **ACM SIGPLAN Notices , Proceedings of the 18th annual
             conference on Object-oriented programing, systems, lan£
             applications OOPSLA '03**, Volume 38 Issue 11
   Publisher: ACM Press
   Full text available: ⏚_pdf(237.38 Additional Information: full citation, abst
                  KB)   citings, index ten

   Many modern programming languages support basic generic programmi
   implement type-safe polymorphic containers. Some languages have mov
   basic support to a broader, more powerful interpretation of generic progr
   extensions have proven valuable in practice. This paper reports on a com
   comparison of generics in six programming languages: C++, Standard M
   Java (with its proposed generics extension), and Generic C. By impleme

   Keywords: C#, C++, Eiffel, Haskell, Java, generic programming, generi

standard ML

7 Technical correspondence: Parametric polymorphism for Java: is there any
Brian Cabana, Suad Alagić, Jeff Faulkner
December 2004 **ACM SIGPLAN Notices**, Volume 39 Issue 12
Publisher: ACM Press
Full text available: pdf(1.60 MB)   Additional Information: full citation, abst

> In spite of years of research toward a solution for the problem of extendi
> parametric polymorphism (genericity) the officially accepted solution al
> release allows violation of the Java type system and turns a type safe lan
> one. The run-time type information in this release is incorrect which lead
> for the programmers relying on the Java reflective capabilities. We show
> basic reasons for these problems. The firs ...

Keywords: Java core reflection, Java virtual machine, class files, class o
loading, parametric polymorphism

8 A comparison of Ada and Java as a foundation teaching language
Benjamin M. Brosgol
September 1998 **ACM SIGAda Ada Letters**, Volume XVIII Issue 5
Publisher: ACM Press
Full text available: pdf(1.49 MB)   Additional Information: full citation, abst terms

> Java has entered the software arena in unprecedented fashion, upstaging
> technologies that are longstanding players in the industry. Almost unhea
> the language and its surrounding technology are attracting increasing att
> the hardware and software communities but also among lay users and in
> This phenomenon has not escaped the attention of academia, and a grow
> colleges and universities are looking at Java as a candid ...

9 On type systems for object-oriented database programming languages
Yuri Leontiev, M. Tamer Özsu, Duane Szafron
December 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 4

Publisher: ACM Press

Full text available: 🖾 pdf(346.87 Additional Information: <u>full citation, abst</u>
        <u>KB)</u>   <u>index terms</u>

The concept of an object-oriented database programming language (OOI
because it has the potential of combining the advantages of object orient;
programming to yield a powerful and universal programming language c
and consistent combination of object orientation and database programm
straightforward. Since one of the main components of an object-oriented
language is its type system, one of the first problems that ar ...

Keywords: OODB, OODBPL, object-oriented database programming la
checking, typing

10 <u>Featherweight Java: a minimal core calculus for Java and GJ</u>
◈ Atsushi Igarashi, Benjamin C. Pierce, Philip Wadler
    May 2001 **ACM Transactions on Programming Languages and System**
            Volume 23 Issue 3
    Publisher: ACM Press

Full text available: 🖾 pdf(644.38 Additional Information: <u>full citation, abst</u>
        <u>KB)</u>   <u>citings, index ten</u>

Several recent studies have introduced lightweight versions of Java: redu
which complex features like threads and reflection are dropped to enable
about key properties such as type safety. We carry this process a step fur
almost all features of the full language (including interfaces and even ass
a small calculus, Featherweight Java, for which rigorous proofs are not o
easy. Featherweight Java bears a similar rela ...

Keywords: Compilation, Java, generic classes, language design, languag

11 <u>Featherwieght Java: a minimal core calculus for Java and GJ</u>
◈ Atshushi Igarashi, Benjamin Pierce, Philip Wadler
    October 1999 **ACM SIGPLAN Notices , Proceedings of the 14th ACM !**
            conference on Object-oriented programming, systems, la
            applications OOPSLA '99, Volume 34 Issue 10
    Publisher: ACM Press

Full text available: ▨ pdf(1.55   Additional Information: <u>full citation</u>, <u>abst</u>
                         MB)   <u>citings</u>, <u>index ter</u>

Several recent studies have introduced lightweight versions of Java: redu
which complex features like threads and reflection are dropped to enable
about key properties such as type safety. We carry this process a step fur
almost all features of the full language (including interfaces and even ass
a small calculus, Featherweight Java, for which rigorous proofs are not o
easy.Featherweight Java bears ...

Keywords: implementation, language design, theoretical foundations

12 <u>Principal typings for Java-like languages</u>
◈ Davide Ancona, Elena Zucca
January 2004 **ACM SIGPLAN Notices , Proceedings of the 31st ACM S
symposium on Principles of programming languages POI**
Issue 1
Publisher: ACM Press
Full text available: ▨ pdf(170.94 Additional Information: <u>full citation</u>, <u>abst</u>
                         KB)   <u>citings</u>, <u>index ter</u>

The contribution of the paper is twofold. First, we define a general notio
equipped with an entailment relation between type environments; this ge
as a pattern for instantiating type systems able to support separate compi
checking of Java-like languages, and allows a formal definition of sound
completeness of inter-checking w.r.t. global compilation. These properti
practice since they allow selective recompilation. In p ...

Keywords: Java-like languages, principal typings, selective recompilatic

13 <u>A comparison of the concurrency features of Ada 95 and Java</u>
◈ Benjamin M. Brosgol
November 1998 **ACM SIGAda Ada Letters , Proceedings of the 1998 ar
SIGAda international conference on Ada SIGAda '98,**
Issue 6
Publisher: ACM Press

Full text available: 📄 pdf(1.99   Additional Information: full citation, refe
                            MB)   index terms

Keywords: Ada, Java, concurrency, inheritance anomaly, object-oriente
tasking, threads

14 Formalizing the safety of Java, the Java virtual machine, and Java card
  Pieter H. Hartel, Luc Moreau
  December 2001 ACM Computing Surveys (CSUR), Volume 33 Issue 4
  Publisher: ACM Press
  Full text available: 📄 pdf(442.86 Additional Information: full citation, abst
                            KB)   citings, index ten

  We review the existing literature on Java safety, emphasizing formal app
  impact of Java safety on small footprint devices such as smartcards. The
  although a lot of good work has been done, a more concerted effort is ne
  coherent set of machine-readable formal models of the whole of Java and
  implementation. This is a formidable task but we believe it is essential to
  safety, and thence to achieve ITSEC level 6 or Common Crite ...

  Keywords: Common criteria, programming

15 Jam---designing a Java extension with mixins
  Davide Ancona, Giovanni Lagorio, Elena Zucca
  September 2003 ACM Transactions on Programming Languages and S
                  (TOPLAS), Volume 25 Issue 5
  Publisher: ACM Press
  Full text available: 📄 pdf(1.33   Additional Information: full citation, abst
                            MB)   index terms, revi

  In this paper we present Jam, an extension of the Java language supporti
  parametric heir classes. A mixin declaration in Jam is similar to a Java h
  except that it does not extend a fixed parent class, but simply specifies th
  methods a generic parent should provide. In this way, the same mixin ca
  many parent classes, producing different heirs, thus avoiding code duplic

improving modularity and ...

Keywords: Java, language design

16 Language and Implementation: Safe instantiation in generic Java
Eric E. Allen, Robert Cartwright
June 2004 **Proceedings of the 3rd international symposium on Principl**
programming in Java PPPJ '04
Publisher: Trinity College Dublin
Full text available: 📄 pdf(366.32
KB)   Additional Information: <u>full citation</u>, <u>abst</u>

This paper presents the "Safe-Instantiation Principle," a new design prin(
extensions of Java with support for generic types. We discuss the GJ and
formulations of Generic Java and the implications of safe instantiation or
We then consider the implications of safe-instantiation for the addition o
generic types. Finally, we defend the formulation of mixins as *hygienic* p
arguing that a hygienic formulation is ...

17 Alias annotations for program understanding
◈ Jonathan Aldrich, Valentin Kostadinov, Craig Chambers
November 2002 **ACM SIGPLAN Notices , Proceedings of the 17th ACN**
conference on Object-oriented programming, systems,
applications OOPSLA '02, Volume 37 Issue 11
Publisher: ACM Press
Full text available: 📄 pdf(336.14   Additional Information: <u>full citation</u>, <u>abst</u>
KB)   <u>citings</u>, <u>index ten</u>

One of the primary challenges in building and evolving large object-orie
understanding aliasing between objects. Unexpected aliasing can lead to
mistaken assumptions, security holes, and surprising side effects, all of v
software defects and complicate software evolution.This paper presents,
capability-based alias annotation system for Java that makes alias patterr
source code, enabling developers to reason more effec ...

Keywords: aliasing, aliasjava, encapsulation, java, ownership types, typ
uniqueness

18 A first-class approach to genericity

Eric Allen, Jonathan Bannet, Robert Cartwright

October 2003 **ACM SIGPLAN Notices , Proceedings of the 18th annual conference on Object-oriented programing, systems, lang applications OOPSLA '03**, Volume 38 Issue 11

Publisher: ACM Press

Full text available: pdf(357.33 Additional Information: full citation, abst
KB) citings, index ter

This paper describes how to add first-class generic types---including mix typed OO languages with nominal subtyping such as Java and C#. A gen "first-class" if generic types can appear in any context where convention In this context, a mixin is simply a generic class that extends one of its ty a class C<T> that extends T. Although mixins of this form are widely us templates), they are clumsy an ...

19 Javari: adding reference immutability to Java

Matthew S. Tschantz, Michael D. Ernst

October 2005 **ACM SIGPLAN Notices , Proceedings of the 20th annual conference on Object oriented programming, systems, la applications OOPSLA '05**, Volume 40 Issue 10

Publisher: ACM Press

Full text available: pdf(345.67 Additional Information: full citation, abst
KB) index terms

This paper describes a type system that is capable of expressing and enfc constraints. The specific constraint expressed is that the abstract state of an immutable reference refers cannot be modified using that reference. T (part of) the transitively reachable state: that is, the state of the object and from it by following references. The type system permits explicitly exclu abstract state of an ob ...

Keywords: Java, Javari, assignable, immutability, mutable, readonly, ty verification

20

Making the future safe for the past: adding genericity to the Java programn

Gilad Bracha, Martin Odersky, David Stoutamire, Philip Wadler
October 1998 **ACM SIGPLAN Notices , Proceedings of the 13th ACM ⟨**
conference on Object-oriented programming, systems, la
applications OOPSLA '98, Volume 33 Issue 10
Publisher: ACM Press
Full text available: pdf(1.91   Additional Information: <u>full citation</u>, <u>abst</u>
MB)   <u>citings</u>, <u>index ter</u>

We present GJ, a design that extends the Java programming language wi
methods. These are both explained and implemented by translation into 1
language. The translation closely mimics the way generics are emulated
erases all type parameters, maps type variables to their bounds, and inser
needed. Some subtleties of the translation are caused by the handling of ⟨
increases expressiveness and safety: code utilizing generic ...

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1 <u>Extended abstracts: Studying and using failure data from large-scale intern</u>
◈ David Oppenheimer, David A. Patterson
July 2002 **Proceedings of the 10th workshop on ACM SIGOPS Europe beyond the PC EW10**
Publisher: ACM Press
Full text available: ⧉ <u>pdf(77.63 KB)</u>   Additional Information: <u>full citation</u>, <u>abst</u>

> Large-scale Internet services are the newest and arguably the most comn
> class of systems requiring 24x7 availability. As a result, very little inforr
> published about their causes of failure. In an attempt to address this defi(
> analyzed detailed failure reports from three large-scale Internet services.
> identify the major factors contributing to user-visible failures, (2) evalua
> effectiveness of various techniques ...

2 <u>Extended abstracts: Towards trusted systems from the ground up</u>
◈ Vivek Haldar, Michael Franz
July 2002 **Proceedings of the 10th workshop on ACM SIGOPS Europe beyond the PC EW10**
Publisher: ACM Press
Full text available: ⧉ <u>pdf(358.95 KB)</u>   Additional Information: <u>full citation</u>, <u>abst</u>

Operating systems, the most fundamental software layer in virtually evei are notoriously insecure and unreliable. A possible reason for this situati on language-based safety and security mechanisms has largely been ignc of operating systems. There is a lack of *mechanical checking of safety pi* compile- and run-time) as well as a framework and a mechanism for exp transporting and enforcing such properties ...

3 Extended abstracts: Timing fault detection for safety-critical real-time emb
Sébastien Faucou, Anne-Marie Dplanche, Yvon Trinquet
July 2002 **Proceedings of the 10th workshop on ACM SIGOPS Europe beyond the PC EW10**
Publisher: ACM Press
Full text available: pdf(114.10 KB)   Additional Information: full citation, abst

On the one hand, a major aspect of dependability for real-time embeddec respect of timing requirements. On the other hand, the complexity of mo embedded system implies the need for new design process focusing on h such as architecture-based design. In this paper, we show how to integra detection technique in such a design process. Our approach is based upoi (Architecture Description Language). This language allows to d ...

4 Extended abstracts: THINK: a secure distributed systems architecture
Christophe Rippert, Jean-Bernard Stefani
July 2002 **Proceedings of the 10th workshop on ACM SIGOPS Europe beyond the PC EW10**
Publisher: ACM Press
Full text available: pdf(64.00 KB)   Additional Information: full citation, abst

In this paper, we present THINK, our distributed systems architecture, ai have conducted to provide the system programmer with an architecture t efficient and secure operating systems. By specifying and implementing that can be used by the system programmer to implement a chosen secur that flexibility can be guaranteed in an operating system without compro Our work focuses on protection against denial of serv ...

5
Extended abstracts: Secure coprocessor-based intrusion detection

◈ Xiaolan Zhang, Leendert van Doorn, Trent Jaeger, Ronald Perez, Reiner S;
   July 2002 **Proceedings of the 10th workshop on ACM SIGOPS Europe**
                beyond the PC EW10
   Publisher: ACM Press
   Full text available: 🗎 pdf(65.31
                        KB)   Additional Information: <u>full citation</u>, <u>abst</u>

   The goal of an intrusion detection system (IDS) is to recognize attacks si
   exploitation can be prevented. Since computer systems are complex, the
   places where detection is possible. For example, analysis of network traf
   attack in progress [11], a compromised daemon may be detected by its a
   [14, 12, 5, 10, 15], and subsequent attacks may be prevented by the dete
   and stepping stones [16, 17].

6 <u>Extended abstracts: Replica management should be a game</u>
◈ Dennis Geels, John Kubiatowicz
   July 2002 **Proceedings of the 10th workshop on ACM SIGOPS Europe**
                beyond the PC EW10
   Publisher: ACM Press
   Full text available: 🗎 pdf(96.66
                        KB)   Additional Information: <u>full citation</u>, <u>abst</u>

   We believe that large-scale replica management solutions should be base
   model. In this paper, we discuss the benefits provided by an economic ar
   important directions for future research.

7 <u>Extended abstracts: Pangaea: a symbiotic wide-area file system</u>
◈ Yasushi Saito, Christos Karamanolis
   July 2002 **Proceedings of the 10th workshop on ACM SIGOPS Europe**
                beyond the PC EW10
   Publisher: ACM Press
   Full text available: 🗎 pdf(317.12
                        KB)   Additional Information: <u>full citation</u>, <u>abst</u>

   Pangaea is a planetary-scale file system designed for large, multi-nationa
   groups of collaborating users spread over the world. Its goal is to handle
   storage needs---e.g., document sharing, software development, and data
   be write intensive. Pangaea uses *pervasive replication* to achieve low ac
   high availability. It creates replicas dynamically whenever and wherever

builds a random graph of replicas for each ...

8 <u>Extended abstracts: Operating system support for massive replication</u>
Arun Venkataramani, Ravi Kokku, Mike Dahlin
July 2002 **Proceedings of the 10th workshop on ACM SIGOPS Europe beyond the PC EW10**

Publisher: ACM Press

Full text available: <u>pdf(293.50 KB)</u>   Additional Information: <u>full citation</u>, <u>abst</u>

The increasing number of devices used by each user to access data and s
increasing importance of the data and services available electronically bᶜ
anywhere" network-delivered services. Unfortunately, making such serv
is difficult. For example, even though end servers or service hosting site
availability of "four nines" (99.99%) or "five nines" (99.999%), the end-
availability (as perceived by clients) istypically lim ...

9 <u>Extended abstracts: OASIS project: deterministic real-time for safety critic</u>
<u>systems</u>
Stéphane Louise, Vincent David, Jean Delcoigne, Christophe Aussaguès
July 2002 **Proceedings of the 10th workshop on ACM SIGOPS Europe beyond the PC EW10**

Publisher: ACM Press

Full text available: <u>pdf(77.28 KB)</u>   Additional Information: <u>full citation</u>, <u>abst</u>

Safety critical systems is a growing industrial concern. It is a particular a
interest for embedded or I&C systems, in nuclear power plant or aircraft
automotive industry is to use more and more microcontrollers or micropı
software in the near future[Bre01], concerns about safety of these systen
mainstream. At the system level, because of intrinsic complexity, it is di
high dependability. Typical applications should ...

10 <u>Extended abstracts: Model checking system software with CMC</u>
Madanlal Musuvathi, Andy Chou, David L. Dill, Dawson Engler
July 2002 **Proceedings of the 10th workshop on ACM SIGOPS Europe beyond the PC EW10**

Publisher: ACM Press

Full text available: ⊞ pdf(82.15   Additional Information: <u>full citation</u>, <u>abst</u>
                                KB)

Complex systems have errors that involve mishandled corner cases in in
events. Conventional testing techniques usually miss these errors. In rec(
verification techniques such as [5] have gained popularity in checking a
possible behaviors of a system. However, such techniques involve gener
model of the system. Such an abstraction process is unreliable, difficult <
implementation errors.CMC is a framework for mode ...

11 <u>Extended abstracts: A utility-centered approach to building dependable inf</u>
George Candea, Armando Fox
July 2002 **Proceedings of the 10th workshop on ACM SIGOPS Europe**
                beyond the PC EW10
Publisher: ACM Press
Full text available: ⊞ <u>pdf(103.21</u>
                        KB)   Additional Information: <u>full citation</u>, <u>abst</u>

Achieving dependability in large scale infrastructure systems always req
intelligent tradeoffs. This paper draws upon ideas from economics and o
to propose a systematic approach to thinking about such tradeoffs in tern
beneficiary's utility. The design process consists of choosing a spanning
design space, explicitly formulating utility functions with respect to eacl
spanning set, and then iteratively converging on the d ...

12 <u>Extended abstracts: Increasing smart card dependability</u>
Ludovic Casset, Jean-Louis Lanet
July 2002 **Proceedings of the 10th workshop on ACM SIGOPS Europe**
                beyond the PC EW10
Publisher: ACM Press
Full text available: ⊞ <u>pdf(67.19</u>
                        KB)   Additional Information: <u>full citation</u>, <u>abst</u>

Open smart cards like Java Card provide application developers an oppo
rapidly applications by offering the possibility to download during post i
into the card. The main drawback with this kind of smart cards is the risl
hostile application that may exploit a faulty implementation module of tl
Security is always a big concern for smart cards, but the issue is getting 1
multi-applicative platforms, post issuance code do ...

13 <u>Extended abstracts: High-confidence operating systems</u>

⬥ Radu Grosu, Erez Zadok, Scott A. Smolka, Rance Cleaveland, Yanhong A

July 2002 **Proceedings of the 10th workshop on ACM SIGOPS Europe beyond the PC EW10**

Publisher: ACM Press

Full text available: <u>pdf(89.56 KB)</u>   Additional Information: <u>full citation</u>, <u>abst</u>

Operating systems (OSs) are among the most sophisticated software sysl use, and among the most expensive and time-consuming to develop and software must also be robust and dependable, since OS failures can resul that corrupt user data, endanger human lives (cf. embedded systems), or avenues of attack for hackers or even cyber-terrorists.

14 <u>Extended abstracts: Gaining and maintaining confidence in operating syste</u>

⬥ Trent Jaeger, Antony Edwards, Xiaolan Zhang

July 2002 **Proceedings of the 10th workshop on ACM SIGOPS Europe beyond the PC EW10**

Publisher: ACM Press

Full text available: <u>pdf(87.33 KB)</u>   Additional Information: <u>full citation</u>, <u>abst</u>

Recently, there has been a lot of work in the verification of security prop Engler et al. use static analysis to find flaws in the implementation of Lii such as the failure to release locks [4]. Edwards et al. use static and dyna verify that the authorization hooks of the Linux Security Modules (LSM placed such that all the necessary authorizations are performed [2, 12]. Ii et al. and Larochelle et al. show how ...

15 <u>Extended abstracts: Fault tolerance and avoidance in biomedical systems</u>

⬥ Shane Stephens, Gernot Heiser

July 2002 **Proceedings of the 10th workshop on ACM SIGOPS Europe beyond the PC EW10**

Publisher: ACM Press

Full text available: <u>pdf(68.44 KB)</u>   Additional Information: <u>full citation</u>, <u>abst</u>

It is important for a variety of reasons that biomedical systems execute v

useful approach towards error-free software is to design a range of fault ·
into applications software. In addition, by restricting the behaviour of an
requiring explicit allocation of resources such as memory, errors can be (
application is still being written, rather than once an application has beer
paper investigates how an operating syst ...

16 Extended abstracts: Extensible distributed operating system for reliable cor
Katsumi Maruyama, Kazuya Kodama, Soichiro Hidaka, Hiromichi Hashiz
July 2002 **Proceedings of the 10th workshop on ACM SIGOPS Europe
beyond the PC EW10**

Publisher: ACM Press
Full text available: pdf(107.29 KB) Additional Information: full citation, abst

Since most control systems software is hardware-related, real-time-orien
adaptable OSs which help program productivity and maintainability imp
strong demand.We are developing an adaptable and extensible OS based
and multi-server scheme: each server runs in a protected mode interactin
messages, and could be added/extended/deleted easily. Since this OS is l
inter-process messaging overhead is a concern. Our implementation p ...

17 Extended abstracts: Execution time limitation of interrupt handlers in a Jav
Meik Felser, Michael Golm, Christian Wawersich, Jürgen Kleinöder
July 2002 **Proceedings of the 10th workshop on ACM SIGOPS Europe
beyond the PC EW10**

Publisher: ACM Press
Full text available: pdf(58.77 KB) Additional Information: full citation, abst

Device drivers are a very critical part of every operating system. They of
that is executed in interrupt handlers. During the execution of interrupt h
processing of some other interrupts is usually disabled. Thus errors in th:
compromise the whole system.This paper describes an approach to ensur
handler is not allowed to use more than a specified amount of time. Our
on a Java operating system and consists of a combination ...

18 Extended abstracts: Event-driven programming for robust software
Frank Dabek, Nickolai Zeldovich, Frans Kaashoek, David Mazières, Robe1

July 2002 **Proceedings of the 10th workshop on ACM SIGOPS Europe beyond the PC EW10**

Publisher: ACM Press

Full text available: 📄 pdf(107.33 KB)   Additional Information: full citation, abst

Events are a better means of managing I/O concurrency in server softwa: events help avoid bugs caused by the unnecessary CPU concurrency intr Event-based programs also tend to have more stable performance under : threaded programs. We argue that our libasync non-blocking I/O library programming convenient and evaluate extensions to the library that allo\ programs to take advantage of multi-processors. We conclude that e ...

19 Extended abstracts: Efficient heartbeats and repair of softstate in decentrali and routing systems

Hakim Weatherspoon, John D. Kubiatowicz

July 2002 **Proceedings of the 10th workshop on ACM SIGOPS Europe beyond the PC EW10**

Publisher: ACM Press

Full text available: 📄 pdf(138.11 KB)   Additional Information: full citation, abst

Redundancy alone is not sufficient to provide long-term guarantees in di Instead, it must be coupled with mechanisms for automatic maintenance. show how Decentralized Object Location and Routing networks (DOLR provide a framework for efficient heartbeats and continuous system repa

20 Extended abstracts: Design and implementation of the Lambda μ-kernel ba system for embedded systems

Kenji Hisazumi, Tsuneo Nakanishi, Teruaki Kitasuka, Akira Fukuda

July 2002 **Proceedings of the 10th workshop on ACM SIGOPS Europe beyond the PC EW10**

Publisher: ACM Press

Full text available: 📄 pdf(148.56 KB)   Additional Information: full citation, abst

With large-scale embedded systems, improvement of development effici most important problems. In this paper, we design and implement an em system, called the Lambda operating system, which improves the mainta

development efficiency of the operating system. The Lambda operating :
micro-kernel architecture, which allows the operating system to be easily
addition, we propose a method to improve operating system performance

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1 Formal foundations: Formal semantics and analysis of object queries
◈ G. M. Bierman
   June 2003 **Proceedings of the 2003 ACM SIGMOD international confei
            Management of data**
   Publisher: ACM Press
   Full text available: ▣ pdf(244.76 Additional Information: full citation, abst
                       KB)   index terms

   Modern database systems provide not only powerful data models but als(
   languages supporting powerful features such as the ability to create new
   and invocation of arbitrary methods (possibly written in a third-party prc
   language).In this sense query languages have evolved into powerful prog
   languages. Surprisingly little work exists utilizing techniques from progr
   research to specify and analyse these query languages. This paper provid

2 E-services: The Web services debate: J2EE vs. .NET
◈ Joseph Williams
   June 2003 **Communications of the ACM,** Volume 46 Issue 6
   Publisher: ACM Press
   Full text available: ▣ pdf(124.55 Additional Information: full citation, abst
                       KB) ▣ html

(22.62 KB)   terms

As the articles in this section attest, the future of Web services is as certa
That is, the Web services arena is most certainly the next technological v
clear is what direction (of many) that wave will flow. The challenge of s
successfully pull all the components together is particularly daunting.

3 Can C# replace java in CS1 and CS2?

Stuart Reges

June 2002 **ACM SIGCSE Bulletin , Proceedings of the 7th annual conf**
         Innovation and technology in computer science education IT
         34 Issue 3

Publisher: ACM Press

Full text available: pdf(143.13 Additional Information: full citation, abst
                     KB)   citings, index ter

Microsoft has developed a language called C# ("see sharp") that it claim;
programmers to "quickly and easily build solutions" for its new.NET pla
language has much in common with Java, particularly in those features e
and CS2 courses. It also includes some of the desirable features of C++ t
from Java as well as some new features not available in either language.
the pros and cons of teaching CS1 and CS2 using C# instead ...

Keywords: C#, CS1, CS2, Java, object oriented programming

4 JAsCo: an aspect-oriented approach tailored for component based software

Davy Suvée, Wim Vanderperren, Viviane Jonckers

March 2003 **Proceedings of the 2nd international conference on Aspect**
           development

Publisher: ACM Press

Full text available: pdf(991.48 Additional Information: full citation, abst
                     KB)   citings, index ter

In this paper we introduce a novel aspect oriented implementation langu;
JAsCo is tailored for component based development and the Java Beans
in particular. The JAsCo language introduces two concepts: aspect bean:
aspect bean describes behavior that interferes with the execution of a cor
special kind of inner class, called a hook. The specification of a hook is (

and therefore reusable. A connector on the othe ...

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Terms used
generic **class** **framework** **intermediate** **language**

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1 Design and implementation of generics for the .NET Common language ru
Andrew Kennedy, Don Syme
May 2001 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLA
on Programming language design and implementation PLD]**
Issue 5
Publisher: ACM Press
Full text available: ▣ pdf(1.25   Additional Information: full citation, abst
MB)   citings, index ten

The Microsoft.NET Common Language Runtime provides a shared type
intermediate language and dynamic execution environment for the imple
operation of multiple source languages. In this paper we extend it with d
parametric polymorphism (also known as generics), describing the desig
written in an extended version of the C# programming language, and exp
implementation by reference to a prototype extension to the runtim ...

2 Vortex: an optimizing compiler for object-oriented languages
Jeffrey Dean, Greg DeFouw, David Grove, Vassily Litvinov, Craig Chamb
October 1996 **ACM SIGPLAN Notices , Proceedings of the 11th ACM !
conference on Object-oriented programming, systems, la**

applications OOPSLA '96, Volume 31 Issue 10

Publisher: ACM Press

Full text available: pdf(2.45 MB)   Additional Information: <u>full citation</u>, <u>abst</u> <u>citings</u>, <u>index ter</u>

Previously, techniques such as class hierarchy analysis and profile-guide prediction have been demonstrated to greatly improve the performance o written in pure object-oriented languages, but the degree to which these i transferable to applications written in hybrid languages has been unclear this question, we have developed the Vortex compiler infrastructure, a la optimizing compiler for object-oriented languages, with ...

3 <u>Representing Java classes in a typed intermediate language</u>

Christopher League, Zhong Shao, Valery Trifonov

September 1999 **ACM SIGPLAN Notices , Proceedings of the fourth A(international conference on Functional programming] 34 Issue 9**

Publisher: ACM Press

Full text available: pdf(1.81 MB)   Additional Information: <u>full citation</u>, <u>abst</u> <u>citings</u>, <u>index ter</u>

We propose a conservative extension of the polymorphic lambda calculu intermediate language for compiling languages with name-based class ai hierarchies. Our extension enriches standard $F^{\ω}$ with recursive ty] types, and row polymorphism, but only ordered records with no subtypir language on $F^{\ω}$ makes it also a suitable target for translation from order ...

4 <u>Technical correspondence: Language integration in the common language</u>

Jennifer Hamilton

February 2003 **ACM SIGPLAN Notices**, Volume 38 Issue 2

Publisher: ACM Press

Full text available: pdf(974.52 KB) Additional Information: <u>full citation</u>, <u>abst</u>

The Common Language Runtime (CLR) is language and platform-neutra underlying infrastructure for the Microsoft .NET Framework. A key inne is its support for multiple programming languages, enabling programmir

integration at the runtime level to a much greater degree than is currentl$

Keywords: common type system, exception handling, intermediate lang interoperability, metadata, virtual machine

5 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for A on Collaborative research**
Publisher: IBM Press
Full text available: pdf(4.21   Additional Information: full citation, abst
MB)   index terms

Understanding distributed applications is a tedious and difficult task. Vi$ on process-time diagrams are often used to obtain a better understanding the application. The visualization tool we use is Poet, an event tracer dev University of Waterloo. However, these diagrams are often very comple: the user with the desired overview of the application. In our experience, repeated occurrences of non-trivial commun ...

6 Partial evaluation of functional logic programs
María Alpuente, Moreno Falaschi, Germán Vidal
July 1998 **ACM Transactions on Programming Languages and System** Volume 20 Issue 4
Publisher: ACM Press
Full text available: pdf(792.96 Additional Information: full citation, abst
KB)   citings, index ter

Languages that integrate functional and logic programming with a comp semantics are based on narrowing, a unification-based goal-solving mec subsumes the reduction principle of functional languages and the resolut logic languages. In this article, we present a partial evaluation scheme fo languages based on an automatic unfolding algorithm which builds narro method is formalized within the theoretical framework est ...

Keywords: conditional term-rewriting systems, integration of functional programming, narrowing strategies, partial evaluation

7 A systematic study of functional language implementations

Rémi Douence, Pascal Fradet

March 1998 **ACM Transactions on Programming Languages and Syste**
Volume 20 Issue 2

Publisher: ACM Press

Full text available: pdf(273.98 Additional Information: full citation, abst
KB) citings, index ten

We introduce a unified framework to describe, relate, compare, and clas:
language implementations. The compilation process is expressed as a su(
transformations in the common framework. At each step, different transf
fundamental choices. A benefit of this approach is to structure and decor
implementation process. The correctness proofs can be tackled independ
and amount to proving program transformations in the functi ...

Keywords: abstract machines, combinators, compilers, functional progr:
transformation

8 A generic account of continuation-passing styles

John Hatcliff, Olivier Danvy

February 1994 **Proceedings of the 21st ACM SIGPLAN-SIGACT symp
Principles of programming languages**

Publisher: ACM Press

Full text available: pdf(1.41 Additional Information: full citation, abst
MB) citings, index ten

We unify previous work on the continuation-passing style (CPS) transfo:
generic framework based on Moggi's computational meta-language. This
to obtain CPS transformations for a variety of evaluation strategies and t
corresponding administrative reductions and inverse transformations. W(
formal connections between operational semantics and equational theorii
properties of transformations for specific evaluation orders ...

9 Using Java reflection to automate extension language parsing

Dale Parson

December 1999 **ACM SIGPLAN Notices , Proceedings of the 2nd confe**

specific languages PLAN '99, Volume 35 Issue 1
Publisher: ACM Press
Full text available: pdf(1.03 MB)   Additional Information: full citation, abst index terms

An extension language is an interpreted programming language designed a domain-specific framework. The addition of domain-specific primitive embedded extension language transforms that vanilla extension language specific language. The LUxWORKS processor simulator and debugger f Tcl as its extension language. After an overview of extension language e LUxWORKS experience, this paper looks at using Java reflection and ...

10 Computing curricula 2001
September 2001 **Journal on Educational Resources in Computing (JER**
Publisher: ACM Press
Full text available: pdf(613.63 KB) html (2.78 KB)   Additional Information: full citation, refe: index terms

11 A framework for optimizing Java using attributes
Patrice Pominville, Feng Qian, Raja Vallée-Rai, Laurie Hendren, Clark Ve
November 2000 **Proceedings of the 2000 conference of the Centre for A on Collaborative research**
Publisher: IBM Press
Full text available: pdf(314.37 KB)   Additional Information: full citation, abst citings, index ter

This paper presents a framework for supporting the optimization of Java attributes in Java class files. We show how class file attributes may be u: optimization opportunities and profile information to a variety of Java vi including ahead-of-time compilers and just-in-time compilers.We presen context of Soot, a framework that supports the analysis and transformati (class files)[21, 25, 26]. We demonstrate the frame ...

12 Surveying current research in object-oriented design
Rebecca J. Wirfs-Brock, Ralph E. Johnson
September 1990 **Communications of the ACM,** Volume 33 Issue 9

Publisher: ACM Press

Full text available: 📄 pdf(2.82 MB)   Additional Information: <u>full citation</u>, <u>abst</u> <u>citings</u>, <u>index ter</u>

The state of object-oriented is evolving rapidly. This survey describes wl thought to be the key ideas. Although it is necessarily incomplete, it cont and industrial efforts and describes work in both the United States and E well-known ideas, like that of Coad and Meyer [34], in favor of less wid projects.Research in object-oriented design can be divided many ways. S focused on describing a design process. ...

13 <u>New ideas for generic components in Ada</u>

Richard Riehle

September 1998 **ACM SIGAda Ada Letters,** Volume XVIII Issue 5

Publisher: ACM Press

Full text available: 📄 pdf(1.05 MB)   Additional Information: <u>full citation</u>, <u>abst</u>

The creation of reusable software components is an important part of mo practice. Generic templates are one technique for designing these compo template is a module containing algorithms which can operate on some c where the specific data type is not known until later in the development 1 languages, including Ada, support this technique. In Ada, generic templa safe at compile time. We examine some features of Ada which al ...

14 <u>Fast interprocedural class analysis</u>

Greg DeFouw, David Grove, Craig Chambers

January 1998 **Proceedings of the 25th ACM SIGPLAN-SIGACT sympo of programming languages**

Publisher: ACM Press

Full text available: 📄 pdf(2.03 MB)   Additional Information: <u>full citation</u>, <u>refe</u> <u>index terms</u>

15 <u>A framework for run-time systems and its visual programming language</u>

Alan M. Durham, Ralph E. Johnson

October 1996 **ACM SIGPLAN Notices , Proceedings of the 11th ACM ! conference on Object-oriented programming, systems, la**

applications OOPSLA '96, Volume 31 Issue 10
Publisher: ACM Press
Full text available: pdf(1.56   Additional Information: <u>full citation</u>, <u>abst</u>
MB)   <u>citings</u>, <u>index ten</u>

Frameworks and domain-specific visual languages are two different reus
first targeted at expert programmers, the second at domain experts. In fac
are closely related. This paper shows how to develop a domain-specific v
first developing a white-box framework for the domain, then turning it in
framework, and finally building a graphical front end for it. We used this
compiler to specify run-time systems.

16 <u>Automatic program specialization for Java</u>
Ulrik P. Schultz, Julia L. Lawall, Charles Consel
July 2003 **ACM Transactions on Programming Languages and System**
Volume 25 Issue 4
Publisher: ACM Press
Full text available: pdf(1.18   Additional Information: <u>full citation</u>, <u>abst</u>
MB)   <u>citings</u>, <u>index ten</u>

The object-oriented style of programming facilitates program adaptation
program genericness, but at the expense of efficiency. We demonstrate e
state-of-the-art Java compilers fail to compensate for the use of object-on
in the implementation of generic programs, and that program specializati
significant portion of these overheads. We present an automatic program
Java, illustrate its use through detailed case stud ...

Keywords: Automatic program specialization, Java, object-oriented lang
optimization, partial evaluation

17 <u>Engineering a customizable intermediate representation</u>
K. Palacz, J. Baker, C. Flack, C. Grothoff, H. Yamauchi, J. Vitek
June 2003 **Proceedings of the 2003 workshop on Interpreters, virtual m**
emulators
Publisher: ACM Press
Full text available: pdf(322.87 Additional Information: <u>full citation</u>, <u>abst</u>
KB)   <u>citings</u>

The Ovm framework is a set of tools and components for building langu:
present the intermediate representation and software design patterns usec
framework. One of the main themes in this work has been to support exp
new linguistic constructs and implementation techniques. To this end, fr:
components were designed to be parametric with respect to the instructic
operate. We argue that our approach eases the task of writing new ...

18 A practical framework for demand-driven interprocedural data flow analys
Evelyn Duesterwald, Rajiv Gupta, Mary Lou Soffa
November 1997 **ACM Transactions on Programming Languages and S
(TOPLAS),** Volume 19 Issue 6
Publisher: ACM Press
Full text available: pdf(412.57 Additional Information: full citation, abst
KB) citings, index ten

The high cost and growing importance of interprocedural data flow analy
increased interest in demand-driven algorithms. In this article, we presen
framework for developing demand-driven interprocedural data flow anal
experience in evaluating the performance of this approach. A demand fo:
information is modeled as a set of queries. The framework includes a ge1
algorithm that determines the response to query by itera ...

Keywords: copy constant propagation, data flow analysis, def-use chain
algorithms, distributive data flow frameworks, interprocedural data flow
optimizations

19 Mixin layers: an object-oriented implementation technique for refinements
based designs
Yannis Smaragdakis, Don Batory
April 2002 **ACM Transactions on Software Engineering and Methodol:**
Volume 11 Issue 2
Publisher: ACM Press
Full text available: pdf(510.43 Additional Information: full citation, abst
KB) citings, index ten

A "refinement" is a functionality addition to a software project that can a
dispersed implementation entities (functions, classes, etc.). In this paper,
scale refinements in terms of a fundamental object-oriented technique ca

based design. We explain how collaborations can be expressed in existin
languages or can be supported with new language constructs (which we l
as extensions to the Java language). We present a spec ...

Keywords: Collaboration-based design, component-based software, proι
architectures

20 Consistency checking for multiple view software architectures

Pascal Fradet, Daniel Le Métayer, Michaël Périn

October 1999 **ACM SIGSOFT Software Engineering Notes , Proceedin
European software engineering conference held jointly w
SIGSOFT international symposium on Foundations of so
ESEC/FSE-7,** Volume 24 Issue 6

Publisher: Springer-Verlag, ACM Press

Full text available: pdf(1.36   Additional Information: full citation, abst
MB)   citings, index ten

Consistency is a major issue that must be properly addressed when consi
view architectures. In this paper, we provide a formal definition of views
graphically using diagrams with multiplicities and propose a simple algo
consistency of diagrams. We also put forward a simple language of cons
more precise (intra-view and inter-view) consistency requirements. We s
decision procedure to decide whether diagrams satisfy a ...

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**IEE
CNF**   IEE
         Conference
         Proceeding

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IEE CNF	IEE Conference Proceeding
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IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

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IEE CNF	IEE Conference Proceeding
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IEEE CNF IEEE Conference Proceeding

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☐ 1. **Distributed shared memory using the .N**
Seidmann, T.;
Cluster Computing and the Grid, 2003. Pr
IEEE/ACM International Symposium on
12-15 May 2003 Page(s):457 - 462
Digital Object Identifier 10.1109/CCGRII
AbstractPlus | Full Text: PDF(265 KB)
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☐ 2. **C# and the .NET framework: ready for**
Lutz, M.H.; Laplante, P.A.;
Software, IEEE
Volume 20, Issue 1, Jan.-Feb. 2003 Page
Digital Object Identifier 10.1109/MS.200.
AbstractPlus | References | Full Text: PDF
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☐ 3. **Software security: experiments on the .**
and the Shared Source Common Langu
Piessens, F.; Jacobs, B.; Joosen, W.;
Software, IEE Proceedings- [see also Soft
Volume 150, Issue 5, 27 Oct. 2003 Page
Digital Object Identifier 10.1049/ip-sen:2(
AbstractPlus | Full Text: PDF(215 KB)

☐ 4. **Regression test selection based on interı**
Toshihiko Koju; Shingo Takada; Norihisa
Software Maintenance, 2003. ICSM 2003
Conference on

22-26 Sept. 2003 Page(s):420 - 429
Digital Object Identifier 10.1109/ICSM.2(
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5. **Dynamic knowledge inference and lear**
framework
Xiaoou Li; Wen Yu; Lara-Rosano, F.;
Systems, Man and Cybernetics, Part C, IE
Volume 30, Issue 4, Nov. 2000 Page(s):
Digital Object Identifier 10.1109/5326.89
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6. **Server based application level authoris:**
Rissanen, E.;
Software, IEE Proceedings- [see also Soft
Volume 150, Issue 5, 27 Oct. 2003 Page
Digital Object Identifier 10.1049/ip-sen:2(
AbstractPlus | Full Text: PDF(211 KB)

7. **An architecture for distributed applicat**
Microsoft's .NET platform
Fay, D.;
Parallel and Distributed Processing Symp
International
22-26 April 2003 Page(s):7 pp.
Digital Object Identifier 10.1109/IPDPS.2
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8. **Securing handheld devices**
Susilo, W.;
Networks, 2002. ICON 2002. 10th IEEE I
27-30 Aug. 2002 Page(s):349 - 354
Digital Object Identifier 10.1109/ICON.2(
AbstractPlus | Full Text: PDF(547 KB)
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9. **Adaptive regularization**
Hansen, L.K.; Rasmussen, C.E.; Svarer, C
Neural Networks for Signal Processing [I
IEEE Workshop
6-8 Sept. 1994 Page(s):78 - 87
Digital Object Identifier 10.1109/NNSP.1
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10. **A hierarchical Petri net framework for**
assembly
Thomas, J.P.; Nissanke, N.; Baker, K.D.;
Robotics and Automation, IEEE Transact
Volume 12, Issue 2, April 1996 Page(s):
Digital Object Identifier 10.1109/70.4889
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11. **How .NET's custom attributes affect d**
Newkirk, J.; Vorontsov, A.A.;

Software, IEEE
Volume 19, Issue 5, Sept.-Oct. 2002 Pa:
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